

**Monolayer™ - Grazing Angle Accessory for FT-IR Spectroscopy**



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**Features**

- Simple alignment
- Easy accessory interchangeability
- High throughput
- Wide incidence angle 8°- 85°
- Interchangeable aperture stops
- Polarizer mount
- Film expansion/compression facility

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**Ordering Information**

**GS19650** Monolayer™/Grazing Angle Accessory with aperture stops (please specify FT-IR make and model).

\*\* A wide range of polarizers is offered (details on request).

**The Monolayer™/ Grazing Angle Accessory allows the study of insoluble monolayer films at air-water interface in situ using an MCT or InSb detector, and also the analysis of reflective surfaces at grazing incidence angle (8°-85°) using a standard DTGS detector.**

Alignment is very easy, as it involves the adjustments of only two mirrors. Conversion from one form to another is achieved by a simple change of sample holders.

In the monolayer mode, a variety of monolayer systems (eg. Surfactants, proteins, steroids, polymers and phospholipids in biological membranes) can be studied in their native environments. The ability to stretch and compress the films is incorporated, and useful information such as phase transition changes, solvation of head group, orientation of hydrophobic

chain, conformation, configuration and polarization studies may be made.

Operating in the grazing incidence mode at high angles of incidence, up to 85°, allows analysis of thin layers of Langmuir-Blodgett films absorbed on reflective surfaces. Aperture stops are provided to redefine the beam profile to be at prime position on samples at or near grazing angle to enhance the performance. In this operation mode involving air-metal interface, optimization of spectral absorption of coatings on reflective backgrounds and performance data of semi-conductor materials and films can be evaluated.

• Illustrations, descriptions and specifications in this data sheet were correct at the time of going to press. However, Specac's policy is one of continuous product development and we reserve the right to change descriptions and specifications at any time. For the latest details please contact your local Specac office or representative.

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